

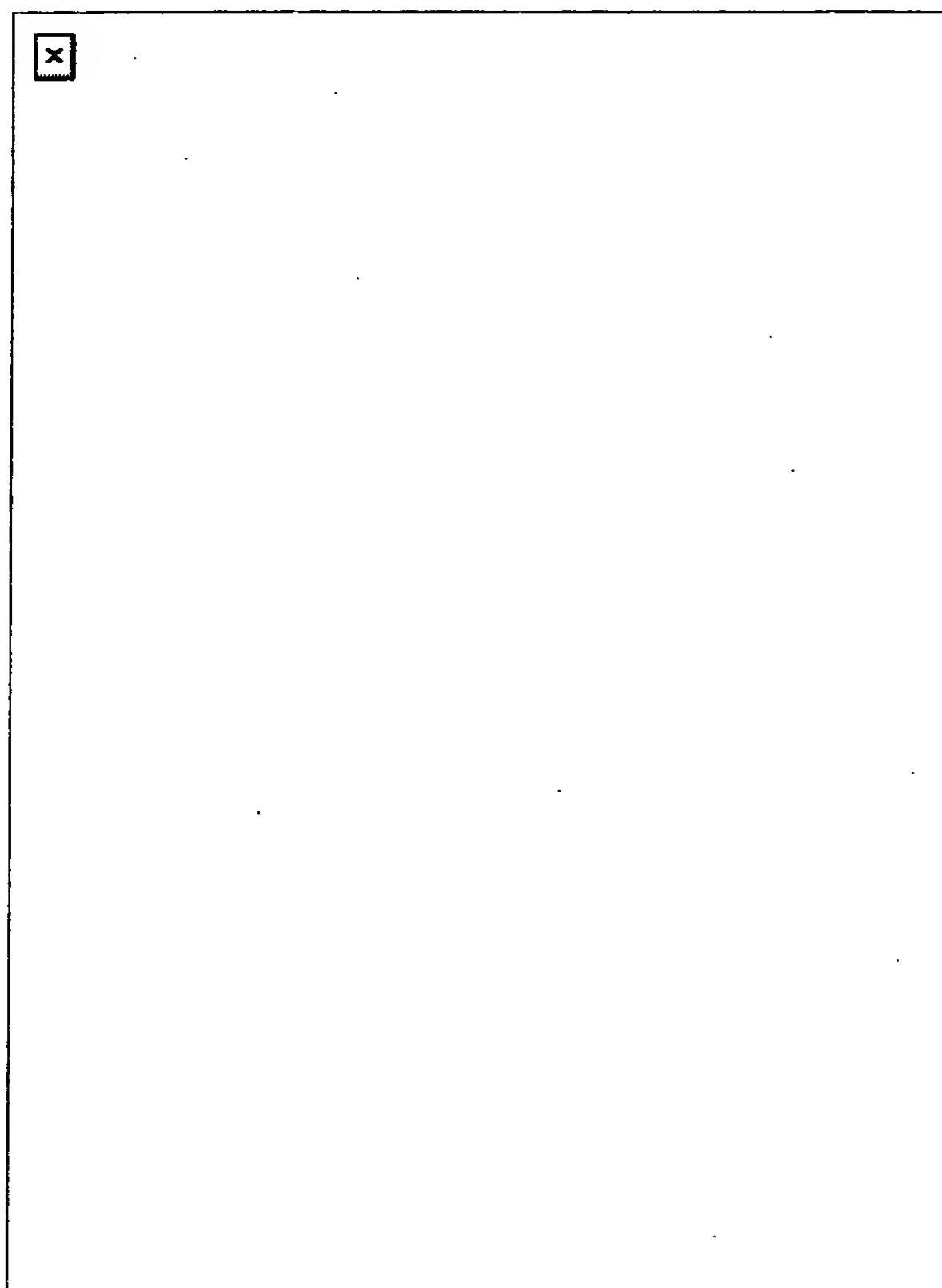
**OPTICAL FINGERPRINT DETECTION MECHANISM**

**Patent number:** JP5242230  
**Publication date:** 1993-09-21  
**Inventor:** IGAKI SEIGO; others: 02  
**Applicant:** FUJITSU LTD  
**Classification:**  
- **International:** G06F15/64; A61B5/117; G06F15/62  
- **European:**  
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**Priority number(s):**

**Abstract of JP5242230**

**PURPOSE:** To improve the positioning precision between an optical system and an image pickup element by attaching the image pickup element to a printed circuit board with a positioning plate between them to make a light reception face and the printed circuit board accurately parallel.

**CONSTITUTION:** An image pickup element 14 is soldered to a printed circuit board 17 with a positioning plate 20 between them, and as the result, the light reception face of the image pickup element 14 is certainly parallel with the printed circuit board 17. Since a protective case 24 covering a light source 12 and the image pickup element 14 is fixed after being positioned to the positioning plate 20, the case 24 is parallel with the positioning plate 20; and consequently, arrangement of the image pickup element 14 and the case 24 is unequivocally determined. The positioning precision of a first parallel plane plate 30 placed on the case and a parallel plane plate 31 placed on this plate 30 is fixedly determined to the case 24.



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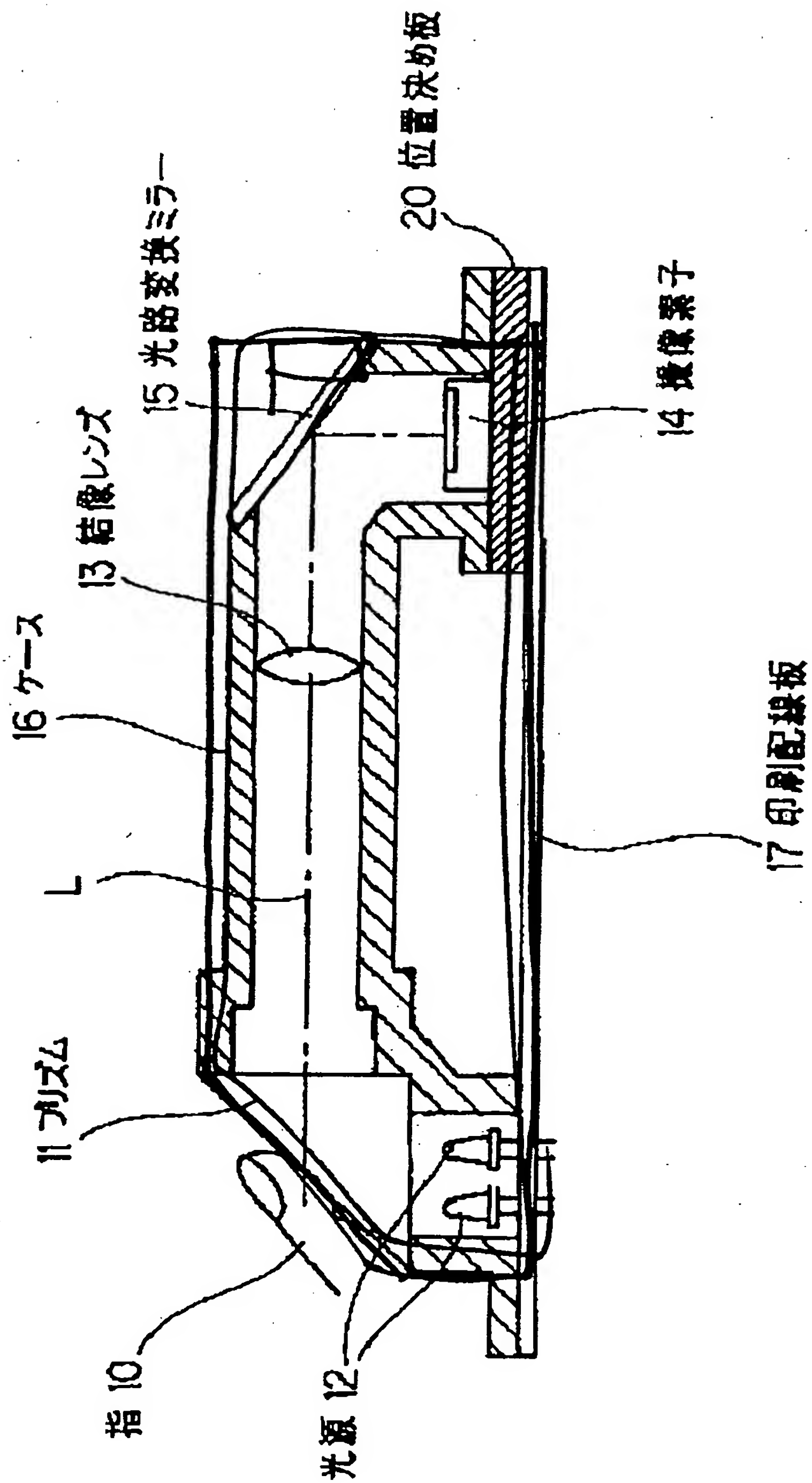
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本発明の第2の実施例を示す構成図



## OPTICAL FINGERPRINT DETECTION MECHANISM

|      |                                       |      |             |
|------|---------------------------------------|------|-------------|
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| 출원인  | FUJITSU LTD                           |      |             |
| 발명자  | IGAKI SEIGO, NIIZAKI TAKU, HONMA KOJI |      |             |
| 대리인  |                                       |      |             |
| 우선권  |                                       |      |             |

**PURPOSE:** To improve the positioning precision between an optical system and an image pickup element by attaching the image pickup element to a printed circuit board with a positioning plate between them to make a light reception face and the printed circuit board accurately parallel. **CONSTITUTION:** An image pickup element 14 is soldered to a printed circuit board 17 with a positioning plate 20 between them, and as the result, the light reception face of the image pickup element 14 is certainly parallel with the printed circuit board 17. Since a protective case 24 covering a light source 12 and the image pickup element 14 is fixed after being positioned to the positioning plate 20, the case 24 is parallel with the positioning plate 20; and consequently, arrangement of the image pickup element 14 and the case 24 is unequivocally determined. The positioning precision of a first parallel plane plate 30 placed on the case and a parallel plane plate 31 placed on this plate 30 is fixedly determined to the case 24.

원문 보기 ✓

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